

**PUNCTURE AND CUT RESISTANT SURGICAL GLOVE  
WITH MACROSPHERE CAPTURE DEVICES**

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**Abstract**

10 A puncture and cut resistant surgical glove is provided  
for protection against injury from sharp surgical instruments  
and needles. The puncture and cut resistant surgical glove  
includes overlaid arrays of adjacent substantially spherical  
macrospheres. Each macrosphere has capture devices for  
capturing the point of a sharp instrument. An elastomer  
15 encapsulates the overlaid arrays of adjacent macrospheres.  
Each macrosphere is either porous or formed of smaller  
microspheres that are aggregated together to provide capture  
devices. A polymer is coated over the aggregated microspheres  
to give each macrosphere a smooth surface. The polymer and  
20 microspheres provide a capture function for capturing the  
points of sharp instruments. The puncture and cut resistant  
surgical glove can be fabricated using low cost manufacturing  
methods.